

***Area C and D Pre-Design Soil
Investigation Report***

***Bristol-Myers Squibb
Manufacturing Company
Humacao, Puerto Rico***

September 2007

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1.0 Introduction

A soil investigation was conducted at the Bristol-Myers Squibb Manufacturing Company (BMS) facility located in Humacao, Puerto Rico. The investigation was conducted as part of the design of the third phase of the Interim Corrective Measure (ICM) being implemented at the Building 5 Area Solid Waste Management Unit. The ICM is being conducted by BMS as part of the RCRA Corrective Action Program. The objective of the ICM is to remove contaminated soil acting as a source of groundwater contamination. The ICM Work Plan (*Interim Corrective Measure Work Plan, Revision 1.0, August 2004*) was approved by EPA in December 2004.

The soil investigation was conducted following similar investigations in adjacent Area A and Area B. The area of investigation described in this report is designated Area C and D. The location of Area C and D is shown on a site plan in Figure 1.

The objectives of the soil investigation are as follows:

- To determine the bottom depth of clean soil within Area C and D which may be reused as backfill
- To provide a contamination profile within Area C and D to aid in planning of the excavation process, including estimation of volumes of soil that may be shipped directly off-site for disposal and of soil likely to require on-site treatment in a biopile prior to off-site disposal
- To test the soil from impacted areas for bulk density (dry basis) to determine the weight of soil per unit volume

The following sections present a summary of the scope of the soil investigation and a discussion of the soil investigation results.

2.0 Summary of Activities Performed

The soil investigation was performed to define excavation Areas C and D. For the purposes of locating soil borings, the area was divided into 39 cells, each of about 560 ft² (20 ft by 28 ft) as shown in Figure 1.

A soil boring was performed at the approximate center of each of the cells. Soil boring locations are identified as C1 through D39. The borings were completed by the direct push method. Soil cores were continuously screened for evidence of contamination using a photoionization detector (PID) and by visual and olfactory means in order to qualitatively confirm the contaminated soil interval. Soil borings were performed by GeoEnviroTech, Inc., of Guaynabo, Puerto Rico. Field oversight and soil sampling was conducted by Mr. Nestor Rivera, PG, of AMAI. Soil borings were completed between July 9 and 16, 2007. Soil boring logs are presented in Appendix A.

In order to determine the maximum depth of clean soil within each cell, a soil sample was collected for laboratory analysis at a depth interval immediately above the inferred impacted soil zone. At several locations the impacted zone was too shallow for a clean soil sample. The top of the impacted zone was estimated based on PID readings and visual and olfactory evidence of contamination. Soil samples were also collected for laboratory analysis from the impacted zone to correlate PID readings and quantitative chemical analyses which will assist in the classification of soils during the excavation phase. Duplicate soil samples were collected at four sample locations.

Soils samples were analyzed for Area C and D Constituents of Concern (COC) including acetone, ethylbenzene, xylene, MIBK, and toluene by SW-846 Method 8260B and methanol by SW-846 Method 8015. In addition, five soil samples collected from within the impacted zone were analyzed for bulk density by ASTM 2937-94. Laboratory analysis was conducted by Accutest Laboratories of Dayton, New Jersey.

Following completion the borings were filled with a cement grout. The surface was finished with cold mix asphalt at locations within the road.

3.0 Results of Soil Investigation

In order to evaluate the suitability of shallow soil for reuse as backfill in the area, soil testing results were compared to Soil Screening Levels (SSL) for the migration-to-groundwater pathway for a dilution-attenuation factor of 20 (*Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, USEPA, 2002*), as proposed in the ICM Work Plan and agreed to by EPA. Analytical results, as well as SSLs for the constituents of concern, are presented in Table 1. Also included in Table 1 are the analytical results of the soil samples collected from within the impacted soil zone. Laboratory analytical reports are presented in Appendix B.

The following observations can be made based on the soil sampling results:

- Of the 39 planned soil boring locations only location C11 was not completed due to the presence of subsurface utilities.
- Area C and D soils are impacted by xylenes, ethylbenzene, MIBK, acetone, methanol and toluene. Impacted soils were encountered as shallow as 1 foot below ground surface (bgs) at C13 and surrounding cells to depth of up to 17.5 feet bgs at C9.
- The maximum concentrations of xylenes were detected in borings C12 and C16 which are adjacent to the former Building 5 sump. The maximum concentration of methanol was detected in boring C26.
- Toluene exceeded the Tier 2 level at only two boring locations, C12 and C16, adjacent to the former Building 5 sump.
- The impacted soils in Area C and D are delineated by soil borings C1 - C4 to the south and by borings D37 - D39 to the north. No impacted soil was observed in these borings and they provide a boundary for the extent of impact. Analytical results confirm no impact at these locations.
- Soil borings C7, C19, D23, D24, D25, D30, and D-35 were not impacted based on visual evidence and PID readings. Laboratory analytical results confirm excavation will not be necessary at these locations.
- PID results indicate limited clean soil cover at borings C5, C9, C10, C13, C14, and, C17. At these locations impacted soil was encountered at depth of 1-1.5 feet bgs.

- PID results indicated shallow impacted soil at borings D31 and D32 which is separated by clean soil overlying second deeper zone of impacted soil.

Figure 2 presents profiles of each cell identifying the clean soil horizon, the potentially clean soil horizon, and, the impacted soil horizon. Cells with no impacted soil were included for reference.

The results of soil bulk density (dry weight) tests are presented in Table 2. Laboratory results are in Appendix A. The values range from 0.8 grams per milliliter (g/ml) to 1.7 g/ml with an average value of 1.4 g/ml.

The data collected during this investigation will be used in the ICM implementation process in the following ways:

- The data will be used to identify two areas of excavation (Area C and D) of approximate equal volume for treatment in the biopile.
- Based on the depths of clean material, the volume of soil to be excavated can be calculated to ensure that sufficient space is made available on surface for temporary staging.
- The PID data will be used to determine the likely volume of potentially clean soil, which will be stockpiled temporarily and analyzed before a decision is made as to reuse as backfill.
- The PID data will be used to provide guidance as to the required depth of excavation within each cell. At some cells (C9, C10, and C13) dewatering may be necessary due to the depth of impacted soil.

Table 1
Soil Sampling Results
Area C and D Predesign Investigation
Bristol-Myers Manufacturing Company
Humacao, Puerto Rico
(Page 3 of 3)

Sample ID	Tier 1 Level	Tier 2 Level	D-33	D-33	D-34	D-34	D-35	D-35	D-36	D-36
Sample Depth	RCRA	EPA SSLs	(5.5-6)	(8.5-9)	(4-4.5)	(6.5-7)	(1-1.5)	(6-6.5)	(6-6.5)	(10-10.5)
Sample Date	Subtitle D		10-Jul-07	10-Jul-07	10-Jul-07	10-Jul-07	10-Jul-07	10-Jul-07	9-Jul-07	8-Jul-07
Reporting units are in ug/kg.										
Acetone	1,600,000	16,000	72.2	289 J	162	26,600	514 J	792	84.6	ND
Ethylbenzene	100,000	13,000	112	13,200	27.4	154,000	1,460	ND	2,770	73,500
Methanol	--	75,000	555	687	321	3,470	368	1,760	NA	NA
MIBK	330,000	19,000	2.3 J	141 J	241	243,000	1,980	3,800	1,300	ND
Toluene	100,000	12,000	ND	ND	ND	ND	ND	ND	1.1	ND
Xylenes	300,000	190,000	195	45,300	20.3	576,000	5,890	21.8	2,320	283,000
Any value exceeding SSLs are shown shaded.										

Sample ID	Tier 1 Level	Tier 2 Level	D-37	D-38	D-39
Sample Depth	RCRA	EPA SSLs	(9.5-10)	(9-9.5)	(9.5-10)
Sample Date	Subtitle D		11-Jul-07	9-Jul-07	9-Jul-07
Reporting units are in ug/kg.					
Acetone	1,600,000	16,000	55.1	352 J	34.7
Ethylbenzene	100,000	13,000	ND	14.5	13.0
Methanol	--	75,000	207	NA	NA
MIBK	330,000	19,000	ND	174	5.4
Toluene	100,000	12,000	ND	1.6	ND
Xylenes	300,000	190,000	0. 69 J	50.2	46.5
Any value exceeding SSLs are shown shaded.					

J - indicates an estimated value

ND - not detected

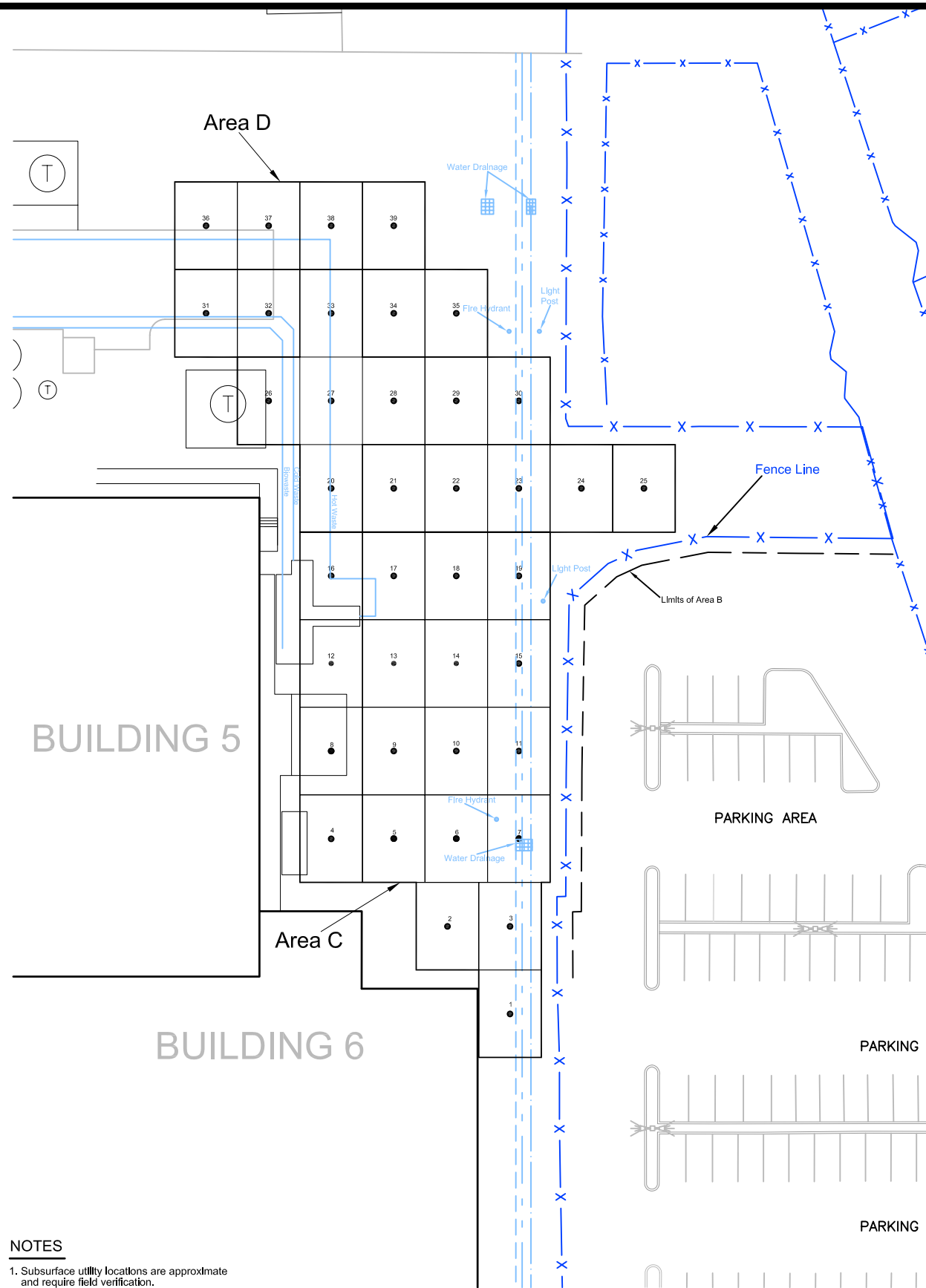
NA - constituent not analyzed

Notes:

1. Tier 1 Levels represent alternative land disposal restriction treatment standards for contaminated media (i.e., ten times the universal treatment standard) in accordance with 40CFR §268.49(c)(1)(c).
2. Tier 2 Levels represent EPA soil screening levels (SSLs) for the migration to groundwater pathway for a dilution-attenuation factor (DAF) of 20. Where EPA SSLs were not available (i.e., MIBK), EPA Region III migration to groundwater SSLs were used (EPA, 2001b; EPA, 2003).

Table 2
Soil Bulk Density
Area C and D Predesign Investigation
Bristol-Myers Manufacturing Company
Humacao, Puerto Rico
 (Page 1 of 1)

Sample ID	Sample Depth (ft bgs)	Sample Date	Bulk Density (Dry Basis)	Soil Type
Reporting units are in g/ml				
C- 6	(12-12.5)	13-Jul-07	1.7	F-M SAND
C-15	(7.5-8.5)	11-Jul-07	1.4	Silty SAND
C-17	(8.5-9.5)	11-Jul-07	0.8	Clayey SILT
D-24	(7-8)	10-Jul-07	1.6	Silty CLAY
D-34	(6-7)	10-Jul-07	1.5	Sandy CLAY



NOTES

1. Subsurface utility locations are approximate and require field verification.
2. Soil analysis from Areas C and D includes Xylenes, Ethylbenzene, MIBK, Acetone, Methanol and Toluene.
3. Area C consists of cells 1 through 19
Area D consists of cells 20 through 39
Contours estimate thickness of impacted soil

Scale	Date
as shown	Sept 2007
ANDERSON - MULHOLLAND & ASSOCIATES, INC. WHITE PLAINS, NEW YORK SAN JUAN, PUERTO RICO	

Figure 1
Site Map
Area C & D

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico

Figure 2
Cell Profiles
Area C and D Predesign Report

depth	Cell 1	Cell 2	Cell 3	depth
ground surface				
0.5	0	0	0	0.5
1				1
1.5				1.5
2				2
2.5				2.5
3				3
3.5				3.5
4				4
4.5				4.5
5				5
5.5				5.5
6	Clean	Clean	Clean	6
6.5				6.5
7				7
7.5				7.5
8				8
8.5				8.5
9				9
9.5				9.5
10				10
10.5				10.5
11				11
11.5	0	0	0	11.5
12				12
volume	0 cy	0 cy	0 cy	

depth	Cell 4	Cell 5	Cell 6	Cell 7	depth
ground surface					
0.5	0			0	0.5
1		Clean			1
1.5		1811			1.5
2		2931			2
2.5					2.5
3					3
3.5					3.5
4					4
4.5					4.5
5					5
5.5		1291			5.5
6		2637			6
6.5	Clean		Clean	Clean	6.5
7			378		7
7.5					7.5
8			481		8
8.5					8.5
9			34		9
9.5					9.5
10		1273	3870		10
10.5		2165			10.5
11		283			11
11.5	0	25			11.5
12		1	3406		12
12.5			225		12.5
13			43		13
13.5			3	0	13.5
14					14
volume	0 cy	187 cy	52 cy	0 cy	

depth	Cell 8	Cell 9	Cell 10	Cell 11	depth
ground surface					
0.5					0.5
1		Clean			1
1.5		2088	Clean	Clean	1.5
2		1794	2460		2
2.5				No boring completed	2.5
3					3
3.5	Clean				3.5
4	42				4
4.5	33				4.5
5	121				5
5.5	1823			Assume impacted	5.5
6					6
6.5					6.5
7					7
7.5					7.5
8	830				8
8.5	501				8.5
9	404				9
9.5					9.5
10	104				10
10.5	146				10.5
11	51		3305		11
11.5			36		11.5
12			196		12
12.5			533		12.5
13			221		13
13.5			609		13.5
14			36		14
14.5			5		14.5
15			1		15
15.5					15.5
16					16
16.5		1685			16.5
17		1517			17
17.5		1029			17.5
18		458			18
18.5		285			18.5
19		322			19
volume	83 cy	342 cy	249 cy	187 cy	

depth	Cell 12	Cell 13	Cell 14	Cell 15	depth
ground surface					
0.5					0.5
1		Clean	Clean		1
1.5		849	2888		1.5
2		5812			2
2.5	Clean	9999			2.5
3	34				3
3.5	254				3.5
4	1450				4
4.5					4.5
5				Clean	5
5.5				89	5.5
6					6
6.5					6.5
7				224	7
7.5				9999	7.5
8					8
8.5					8.5
9		5026			9
9.5	1107	1468		2007	9.5
10	50	928		0	10
10.5	80	177		0	10.5
11	124	599	2170		11
11.5		760	818		11.5
12		373	7		12
volume	124 cy	217 cy	217 cy	52 cy	

depth	Cell 16	Cell 17	Cell 18	Cell 19	depth
ground surface					
0.5					0.5
1		Clean			1
1.5					1.5
2	Clean	787			2
2.5			Clean		2.5
3					3
3.5					3.5
4					4
4.5					4.5
5					5
5.5					5.5
6				Clean	6
6.5	1995				6.5
7			45		7
7.5			18		7.5
8					8
8.5					8.5
9		1132			9
9.5		570			9.5
10		320			10
10.5		7.1			10.5
11					11
11.5					11.5
12	2256				12
12.5	100				12.5
13					13
volume	135 cy	166 cy	83 cy	0 cy	

depth	Cell 20	Cell 21	Cell 22	Cell 23	Cell 24	Cell 25	depth
ground surface							
0.5							0.5
1			188				1
1.5							1.5
2		507					2
2.5		507					2.5
3		1156					3
3.5							3.5
4							4
4.5			208				4.5
5	Clean		1010				5
5.5							5.5
6		1115		Clean	Clean	Clean	6
6.5	81	412	1228				6.5
7	52	295	80				7
7.5		148	93				7.5
8							8
8.5							8.5
9							9
9.5							9.5
10							10
10.5							10.5
11							11
11.5							11.5
12							12
volume	21 cy	104 cy	83 cy	0 cy	0 cy	0 cy	

depth	Cell 26	Cell 27	Cell 28	Cell 29	Cell 30	depth
ground surface						
0.5						0.5
1						1
1.5						1.5
2				Clean		2
2.5		Clean		869		2.5
3		308		982		3
3.5						3.5
4						4
4.5			Clean			4.5
5			209			5
5.5		1377	2572		Clean	5.5
6		1365				6
6.5						6.5
7						7
7.5						7.5
8	Clean					8
8.5						8.5
9						9
9.5						9.5
10	2192					10
10.5				481		10.5
11	48			112		11
11.5	44			6		11.5
12						12
12.5		1816				12.5
13		760				13
13.5		301	64			13.5
14		127	16			14
volume	31 cy	166 cy	166 cy	176 cy	0 cy	

depth	Cell 31	Cell 32	Cell 33	Cell 34	Cell 35	depth
ground surface						
0.5	700					0.5
1	1400	2194				1
1.5	360					1.5
2	Clean	Clean				2
2.5						2.5
3						3
3.5						3.5
4						4
4.5				Clean		4.5
5				1030		5
5.5						5.5
6				1262		6
6.5	Clean					6.5
7	240		Clean		Clean	7
7.5	286					7.5
8						8
8.5						8.5
9	173			292		9
9.5	199			12		9.5
10	346	Clean		11		10
10.5	664	446		26		10.5
11	24	9999		1		11
11.5	10	7157				11.5
12		113				12
12.5		81				12.5
13		428				13
13.5		495				13.5
14		293				14
volume	52 cy	104 cy	0 cy	83 cy	0 cy	

depth	Cell 36	Cell 37	Cell 38	Cell 39	depth
ground surface					
0.5					0.5
1					1
1.5					1.5
2					2
2.5					2.5
3					3
3.5					3.5
4					4
4.5					4.5
5					5
5.5					5.5
6		Clean	Clean	Clean	6
6.5					6.5
7					7
7.5					7.5
8					8
8.5					8.5
9					9
9.5	Clean				9.5
10					10
10.5					10.5
11					11
11.5					11.5
12					12
volume	21 cy				

Potentially clean soil
Impacted soil

Appendix A

Soil Boring Logs

AMAI 110 Corporate Park Drive White Plains, New York 10604		SOIL BORING LOG		BORING NUMBER C - 1	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/11/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 13		DEPTH TO WATER (FT): na		DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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					(0-33") Gravelly silty SAND, brown light brown, slightly moist, loose, gravel fragments
1	33	0			
		0			
2		0			
		0			(33-60") No recovery
3					
4					
5					
	60	0			(60-67") Slough of material from top.
6					(67-120") Sandy silty CLAY, yellow light yellow, gray with black veins, slightly moist, stiff (113-120") fine to medium SAND
		0			
7					
		0			
8					
		0			
9					
		0			
10			(9.5-10)		
	28	0			(120-125") Slough of material from top
11					(125- end of boring) Sandy silty CLAY, black gray purple-red, moist to we
		0			
12					
		0			
13					End of Boring

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-2	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/13/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 13		DEPTH TO WATER (FT): na		DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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	47	0			(0-8") Concrete
1					(8-20") Backfill, Gravelly sandy silty CLAY, gray, green, brown to light brown, stif slightly moist, angular gravel
		0			
2					
		0			(28-49") Sandy silty CLAY, green yellow-brown gray, slightly mois some fine to medium gravel
3					
		0			
4					
		0			(48-60") SAND
5					
	58	0			(60-111") Sandy silty CLAY fine to medium grained, brown gray yellow-brown, slightly moist, very hard, some vegetation
6					
		0			
7					
		0			
8		0			
		0			
9					
		0	(9.5-10)		(111-118") SAND and silty SAND fine to medium grained, gray red, loose, moist
10		1			
	36	0			(120-138") Slough of material from top, gravelly sandy silty CLAY, green brown, very soft, wet to saturated
11					
		0			(138-156") Sandy silty CLAY fine to medium grained, gray brown, moist, sof
12					
		0			
13					End of Boring

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG			BORING NUMBER C-3	
PROJECT NAME: Bristol Myers Squibb					LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure					CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch					BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12					DEPTH TO WATER (FT): na	
					DATE: 07/11/07	
					DRILLER: Abraham Nuniz	
					LOGGED BY: Nestor Rivera	
DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS	
1	12	0			(0-12") sandy silty CLAY medium to coarse, yellow-dark brown, moist, stiff, some fine gravel	
2		0				
3		0				
4		0				
5		1				
6		1				
7	37	1			(60-67") Slough of material from top (67-97") Sandy silty CLAY fine, yellow-dark brown with black veins, slightly moist, stiff	
8		1				
9		1				
10		1			(97-120") No recovery	
11	60		(10.5-11)		(120-156") Slough of material from top, wet to saturated (120-144") Silty SAND and sandy SILT medium coarse, loose, wet, soft	
12					End of Boring	

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C - 4	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): 1'	
				DATE: 07/16/07	
				DRILLER: W. Rodrigues/ A. Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	31	0			(0-10") Backfill, gravelly sandy silty CLAY, brown gray black, slightly moist, soft
					(10-31") Sandy silty CLAY, yellow-brown green black veins, slightly moist, stiff
2		0			
3		0			(31-60") No recovery
4					
5					
6	56	0			(60-102") Sandy silty CLAY fine, brown gray white, slightly moist, soft to stiff
7		0			
8		0			
9		0			(102-116) Sandy silty CLAY, gray red yellow-brown, slightly moist to moist, stiff to soft
10		0	(9.5-10)		
11	25	0			(120-137") Slough of material from top, sandy silty CLAY chunks, saturated
12		0			(137-145") Sandy silty CLAY medium to coarse grained, gray red yellow-brown
					End of Boring

AMAI 110 Corporate Park Drive White Plains, New York 10604	SOIL BORING LOG	BORING NUMBER C-5
PROJECT NAME: <u>Bristol Myers Squibb</u> LOCATION: <u>Humacao, PR</u> PROJECT NO: <u>Interim Corrective Measure</u> CONTRACTOR: <u>GeoEnvirotech</u>		DATE: <u>07/13/07</u> DRILLER: <u>William Rodriguez / Abraham Nuniz</u> LOGGED BY: <u>Nestor Rivera</u>
SAMPLER TYPE/DIAMETER (IN): <u>5 ft Macro-core/ 1.75 inch</u> BORING METHOD: <u>Direct Push</u> TOTAL DEPTH DRILLED (FT): <u>16</u> DEPTH TO WATER (FT): <u>na</u>		

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	30	0 4			(0-12") Backfill, gravelly sandy silty CLAY, brown to yellow-brown, slightly moist, hard rock fragments, (9-12") gravel
2		1811 2931			(12-30") Sandy silty CLAY, brown yellow-brown gray, slightly moist, stiff, some gravel size rock fragments
3		2931			(30-60") No recovery
4					
5					
6	59	1291 2637	(5.5-6)		(60-102") Sandy silty CLAY, brown yellow-brown gray with black veins, slightly moist, stiff, plastic
7		773 850			
8		680 230			
9		626 41			(102-119") SAND locally more CLAYEY, gray light brown to brown, moist, loose
10		7 19			
11	30	1273 2165			(120-138") Slough of material from top, sandy silty CLAY, saturated
12		283 25			(138-150") SAND, medium to coarse, wet to saturated, loose
13	42	5 1			(144-186") SAND coarse, gray purple, saturated to wet, loose

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-6	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/13/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 16		DEPTH TO WATER (FT): na		DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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		0			(0-6") Concrete
1	44	35			(6-44") Sandy silty CLAY, green brown yellow-brown gray, slightly moist, very hard angular fragments
2		51			
		63			
3		21			
		1			
4					(44-60") No recovery
5					
6	59	22			(60-69") Slough of material from top, sandy silty CLAY and gravelly SAND, concrete fragments
		1			(69-105") Sandy silty CLAY fine, brown light brown black and gray veins, slightly moist, very hard
7		6			
		76			
8		378			
		71			
9		481			
		142			(105-119") SAND fine to coarse, green gray, slightly moist, loose
10		34			
		26			
11	42	387			(120-130") Slough of material from top, gravelly sandy silty CLAY
		117			(130-138") Sandy silty CLAY, gray brown, slightly moist, well rounded
12		180			
		181			(138-162") SAND fine to medium grained, red gray, loose, quartz/ lithic fragments
13	60	3406	(12-12.5)		(144-180") Slough of material from top, SAND fine to coarse, saturated
		225			

[illegible]

AMAI 110 Corporate Park Drive White Plains, New York 10604	SOIL BORING LOG	BORING NUMBER C-7
PROJECT NAME: <u>Bristol Myers Squibb</u> LOCATION: <u>Humacao, PR</u> PROJECT NO: <u>Interim Corrective Measure</u> CONTRACTOR: <u>GeoEnvirotech</u>		DATE: <u>07/11/07</u> DRILLER: <u>Abraham Nuniz</u> LOGGED BY: <u>Nestor Rivera</u>
SAMPLER TYPE/DIAMETER (IN): <u>5 ft Macro-core/ 1.75 inch</u> BORING METHOD: <u>Direct Push</u> TOTAL DEPTH DRILLED (FT): <u>13</u> DEPTH TO WATER (FT): <u>na</u>		

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	18	0			(0-18") Gravelly SAND to gravelly sandy silty CLAY, brown to light brown, slightly moist, loose to soft
2		0			(18-54") No recovery
3		0			
4		0			
5		0	(4.5-5)		
6	36	0			(60-66") Slough of material from top (66-86") Sandy silty CLAY, light brown gray red and black veins, slightly moist, soft to stiff
7		13.4 0			
8		14.3 0			(86-96") SAND medium to coarse, gray red light brown, moist to wet, loose
9					(96-120") No recovery
10					
11	40	0			(120-144") Slough of material from top
12		0			
13					(144-156") SAND medium to coarse, gray red black, moist to wet, loose

AMAI 110 Corporate Park Drive White Plains, New York 10604	SOIL BORING LOG	BORING NUMBER C-8
PROJECT NAME: <u>Bristol Myers Squibb</u> LOCATION: <u>Humacao, PR</u> PROJECT NO: <u>Interim Corrective Measure</u> CONTRACTOR: <u>GeoEnvirotech</u>		DATE: <u>07/12/07</u> DRILLER: <u>Abraham Nuniz</u> LOGGED BY: <u>Nestor Rivera</u>
SAMPLER TYPE/DIAMETER (IN): <u>5 ft Macro-core/ 1.75 inch</u> BORING METHOD: <u>Direct Push</u> TOTAL DEPTH DRILLED (FT): <u>13</u> DEPTH TO WATER (FT): <u>na</u>		

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	30	34 51			(0-18") Backfill, gravelly sandy silty CLAY, green brown, slightly moist, stiff
2		52 42			(18-30") Sandy silty CLAY, green light brown, slightly moist, locally some gravel
3		33			(30-60") No recovery
4					
5					
6	58	121 1823	(5.5-6)		(60-115") Sandy silty CLAY, red gray yellow-brown, slightly moist to moist, stiff, Fe oxide nodules
7		449 950			
8		530 239			
9		830 501			
10		404 152			(115-118") SAND medium to coarse grained, wet, loose
11	36	104 146			(120-136") Slough of material from top, loose
12		51			(136-156") SAND medium to coarse, black red, wet to saturated, loose
13					End of boring at 13 ft bgs

AMAI 110 Corporate Park Drive White Plains, New York 10604	SOIL BORING LOG	BORING NUMBER C-9
PROJECT NAME: <u>Bristol Myers Squibb</u> LOCATION: <u>Humacao, PR</u> PROJECT NO: <u>Interim Corrective Measure</u> CONTRACTOR: <u>GeoEnvirotech</u>		DATE: <u>07/13/07</u> DRILLER: <u>Abraham Nuniz</u> LOGGED BY: <u>Nestor Rivera</u>
SAMPLER TYPE/DIAMETER (IN): <u>5 ft Macro-core/ 1.75 inch</u> BORING METHOD: <u>Direct Push</u> TOTAL DEPTH DRILLED (FT): <u>20</u> DEPTH TO WATER (FT): <u>na</u>		

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	36	1 2			(0-6") Backfill, gravelly sandy silty CLAY, brown yellow-brown, slightly moist, angular gravel fragments (6-36") Sandy silty CLAY, yellow-brown green with black veins, slightly moist, stiff, some gravel fragments
2		2088 1794			
3		1559 592			(36-60") No recovery
4					
5					
6	60	1986 1330			(60-114") Sandy silty CLAY, brown yellow-brown black gray, slightly moist, stiff
7		1172 1310			
8		1150 1088			
9		1045 1210			
10		1166 1735	(9.5-10)		
11	24	2918 2876			(120-144") SAND medium to coarse, yellow black brown, saturated, loose
12		2043 350			
13		235 1772			(144-192") SAND, same as above

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-10	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 16				DEPTH TO WATER (FT): na	
				DATE: 07/13/07	
				DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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					(0-6") Concrete
1	36	0			(6-36") Sandy silty CLAY, green yellow-brown, slightly moist, very stiff
		0			
2		2460			
3		1312			
		417			
4					(36-60") No recovery
5					
6	60	1883			(60-120") Sandy silty CLAY fine, brown yellow-brown green veins (114-120") dark brown, Fe oxide, slightly moist, stiff
		2278			
7		1065			
		26			
8		1074			
		348			
9		800			
		795			
10		679			
		245			
11	30	107			(120-126") Concrete fragments and powder
		881			(126-144") SAND and silty SAND medium to coarse, green brown black, moist, loose
12		3305	(11-11.5)		
		473			
13		36			(144-156") Slough of material from top
		196			

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG			BORING NUMBER C-12	
PROJECT NAME: Bristol Myers Squibb LOCATION: Humacao, PR					DATE: 07/12/07	
PROJECT NO: Interim Corrective Measure CONTRACTOR: GeoEnvirotech						
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch BORING METHOD: Direct Push						
TOTAL DEPTH DRILLED (FT): 12 DEPTH TO WATER (FT): na					DRILLER: Abraham Nuniz	
					LOGGED BY: Nestor Rivera	
DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS	
1	42	0			(0-22") Backfill, gravelly sandy silty CLAY, light brown, loose	
		0				
2		0			(22-42") Gravelly sandy silty CLAY homogenous, gray green yellow-brown, slightly moist, stiff	
		15				
3		34				
		258				
4		1450			(42-60") No recovery	
5						
6	30	1700	(5.5-6)		(60-72") Same as above	
		1780				
7		1462			(72-90") Sandy SILT/ SAND coarse, black, wet, loose, some cobbles	
		1030				
8		1107				
9						
10						
11	30	124			(120-138") SAND, brown violet, saturated, loose	
		180				
12		172			(138-150") Sandy silty CLAY, yellow-brown gray violet gray veins, moist, soft, loose	
		457				
					Refusal at 12ft bgs	

AMAI 110 Corporate Park Drive White Plains, New York 10604	SOIL BORING LOG	BORING NUMBER C-13
PROJECT NAME: <u>Bristol Myers Squibb</u> LOCATION: <u>Humacao, PR</u> PROJECT NO: <u>Interim Corrective Measure</u> CONTRACTOR: <u>GeoEnvirotech</u>		DATE: <u>07/12/07</u> DRILLER: <u>Abraham Nuniz</u> LOGGED BY: <u>Nestor Rivera</u>
SAMPLER TYPE/DIAMETER (IN): <u>5 ft Macro-core/ 1.75 inch</u> BORING METHOD: <u>Direct Push</u>		
TOTAL DEPTH DRILLED (FT): <u>12</u> DEPTH TO WATER (FT): <u>na</u>		

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	48	45 41			(0-3") Asphalt (3-20") Backfill, gravelly sandy silty CLAY, green brown, slightly moist, stiff, some angular gravel fragments
2		849 5812			(20-48") Gravelly sandy silty CLAY, slightly moist, stiff, some 1.5" angular gravel fragments
3		9999 4380			
4		5485			
5		9382	(4.5-5)		
6	48	518 951			(60-89") Same as above
7		1325 2227			
8		4073 9999			(89-108") SAND silty coarse grained, wet to saturated, loose, shiny
9		5026 1468			
10		928 177			
11	30	599 760			(120-150") Slough of material from top, same as above
12		373 203			
		373 203			Refusal at 12ft bgs

AMAI 110 Corporate Park Drive White Plains, New York 10604	SOIL BORING LOG	BORING NUMBER C-14
PROJECT NAME: <u>Bristol Myers Squibb</u> LOCATION: <u>Humacao, PR</u> PROJECT NO: <u>Interim Corrective Measure</u> CONTRACTOR: <u>GeoEnvirotech</u>		DATE: <u>07/13/07</u> DRILLER: <u>William Rodrigues</u> LOGGED BY: <u>Nestor Rivera</u>
SAMPLER TYPE/DIAMETER (IN): <u>4 ft Macro-core/ 1.75 inch</u> BORING METHOD: <u>Direct Push</u> TOTAL DEPTH DRILLED (FT): <u>12</u> DEPTH TO WATER (FT): <u>na</u>		

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	45	395			(0-7") Asphalt
					(7-12") Backfill, gravelly sandy silty CLAY, slightly moist, stiff
2		294 2888			(12-45") Sandy, silty, CLAY, yellow-brown, gray, brown, slightly moist, stiff some gravel fragments
3		2850 2426			
4		1559 1822			
5	46	2021 2587			(48-84") Sandy silty CLAY, yellow-brown to brown gray-black, slightly moist, stiff, some gravel fragments
6		2689 2416			
7		2169 2777	(6.5-7)		
8		518 596			(84-91") Sandy silty CLAY, black green, slightly moist, stiff, some roots
9	42	2791 2916			(96-114") Sandy silty CLAY, yellow-brown gray, moist, stiff, some grandiorite gravel
10		2308 548			(114-138") SAND medium to coarse, black gray violet, wet, loose
11		287 2170			
12		818 7			End of Boring at 12 ft bgs.

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-15	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: Abraham Nuniz	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	36	0			(0-8") Gravelly silty SAND, brown, moist
					(8-36") CLAY with gravel trace sand, brown gray, slightly moist, stiff
2		0			
3		0			
4					(36-60") No recovery
5					
6	42	0 89	(5-5.5)		(60-68") Silty CLAY, gray, wet, soft
					(68-72") Sandy SILT, soft, some gravel, light brown, dry
7		0			(72-78") Silty CLAY, gray, moist, stiff
					(78-84") Silty SAND, gray, moist, stiff
8		224 9999	(7.5-8) (7.5-8.5)		(84-102") Silty SAND fine, pink-gray, moist
9		9999 2007			(102-120") No recovery
10					
11	24	0 8.9			(120-138") SAND medium grained, black, wet
12		2.9 0			(138-144") SAND medium grained, pink-gray, wet
					End of Borng at 12 ft bgs

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-16	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/12/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 13		DEPTH TO WATER (FT): na		DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	24	0			(0-16") Backfill, gravelly sandy silty CLAY,brown gray light green, slightly moist, angular to sub angular fragments
2		0	(1.5-2)		(16-24") Sandy silty CLAY, some gravel, slightly moist, soft
3					(24-60") No recovery
4					
5					
6	48	0 11			(60-72) Slough of material from top
7		1955 19			(72-89) Sandy silty CLAY fine to medium, light green and brown, slightly moist, stiff
8		1488 850			(89-108") Sandy silty CLAY/SAND, medium to coarse, black, moist, loose, soft
9		851 2088			
10			(9.5-10)		
11	36	1669 2077			(120-150") SAND medium grained, black-violet, saturated, loose
12		2124 2055			
13		2256 100			(150-156") Gravelly silty CLAY, yellow-brown, slightly moist, stiff, some fine sand and roots End of Boring

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-17	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: William Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	39	16.5	(0.5-1)		(0-8") Asphalt, fill
		11.6			(8-12") Sandy silty CLAY, gravel, greenish gray
2		344			(12-33") Clayey SILT, light brown, slightly moist to moist, stiff to soft, some gravel
		169			
3		787			(33-39") SILT/ GRAVEL, light brown, slightly moist, soft, up to 2" sub rounded to sub angular fragments.
		123			
4					
5	45	1072			(48-60") Clayey SILT and GRAVEL, light brown
		230			
6		837			(60-72") Same as above, moist, little gravel
		862			
7		630			(72-93") Silty CLAY, dark brown, moist, stiff
		113			
8		29			
9	38	326	(8.5-9) (8.5-9.5)		(98-100) Same as above (100-110") Clayey SILT, some gravel, light brown, soft
		1132			
10		570			(114-120") Clayey SILT, dark brown, moist, stiff
		320			
11		7.1			(120-128") CLAY, brown, wet, soft (128-134") SAND medium, trace clay, gray-brown, wet
		5.7			
12		4.8			End of Boring at 12 ft bgs.

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-18	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/12/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 14		DEPTH TO WATER (FT): na		DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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	42	0			(0-8") Asphalt
1					(8-34") Backfill, gravelly sandy silty CLAY
2		0			
3		386 516			(34-42") Sandy silty CLAY, yellow-brown violet gray with iron concretions, slightly moist, very hard
4		425			(42-60") No recovery
5					
6	47	20 64			(60-72") Slough of material from top, gravelly sandy silty CLAY, gravel
7		555 45	(6-6.5)		(72-108") Sandy silty CLAY, brown light brown gray with black veins, slightly moist, very hard
8		18 14			
9		4 4			
10		1 1			(108") Sandy silty CLAY, black brown to light brown, slightly moist, stiff
11	48	15 11			(120-126") Slough of material from top (126-153") Sandy silty CLAY, some brown to light brown, slightly moist, stiff to soft, fine sand
12		107 424			
13		149 3			(153-165") SAND silty sand medium to coarse, wet, loose

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER C-19	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: Abraham Nuniz	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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					(0-8") Asphalt, fill
1	34	0			(8-34") Sandy clayey SILT and GRAVEL, greenish gray, slightly moist, stiff
		0			
2					
		0			
3					
		0			
4					
	18	0	(4.5-5)		(48-54") Same as above, soft
5		3.1			(54-66") SAND medium to coarse, green, wet, 1.5" sub angular gravel
		0			
6		5.3			
		0			
7		4.2			
8					
	48	3			(96-106") Clayey SAND, some gravel, greenish gray, wet, soft
9		4.5			(106-144") SAND medium to coarse, greenish gray to pinkish gray, saturated
		4.9			
10		10.7			
		3.9			
11		0.1			
		1.4			
12		0			End of Boring at 12 ft bgs.

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-20	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Hand Held	
TOTAL DEPTH DRILLED (FT): 8				DEPTH TO WATER (FT): na	
				DATE: 07/10/07	
				DRILLER: W. Rodriguez	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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		16			(0- 22") Gravelly silty SAND, gray white, slightly moist, soft, loose, angular to sub angular rock fragments
	42	9	(0.5-1)		
1					
		86			
		364			
2					
		187			
		18			
3					
		10			
		1			
4					
	48	87			(48-72") Sand, silty CLAY, gray black brown, local gravel, angular rock fragments
5		1			
		3	(5.5-6)		
		456			
6					
		120			(72-96") Sandy silty CLAY, brown black light green veins, slightly moist, stiff
		81			
7					
		52			
		34			
8					Refusal at 8'
9					
10					
11					
12					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-21	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/10/07	
				DRILLER: William Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	45	0			(0-6") Asphalt, fill (6-12") Sandy silty CLAY, gray-brown, dry
2		10 507	(1-1.5)		(12-24") Sandy silty CLAY, greenish gray, slightly moist, soft, trace gravel
3		507 1156			(24-25") Wood fragment (25-40") Silty CLAY, light brown
4		797			(40-45") Sandy, SILT, light brown
5	48	453 1169			(48-72") Silty CLAY, light moist, slightly moist, soft
6		1185 1115	(5-5.5)		
7		505 412			(72-78") Clayey SILT, light brown, slightly moist, soft (78-96") Clayey SILT, brown, slightly moist, stiff
8		295 148			
9	45	432 61			(96-104") Clayey SILT to silty CLAY, brown to dark brown, moist, soft to stiff (104-112") SAND medium to coarse, dark brown, wet, trace clay
10		61 13			(112-120") Silty SAND fine, pink-gray, wet, soft
11		18 14			(120-144") Silty SAND fine, pink-grey, wet, soft
12		0 0			End of Boring at 12ft bgs

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-22	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/10/07	
				DRILLER: William Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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		7			(0-8") Asphalt, fill
	42	188			(8-22") Sandy silty CLAY/Gravel, gray-brown, slightly moist
1					
		51			
		46			(22-26") Sandy SILT, dark brown, slightly moist, hard
2					
		176			(26-42") Sandy silty CLAY, light brown, slightly moist
		108			
3					
		82	(3-3.5)		
4					
		209			(48-72") Sandy SILT, light brown, slightly moist, stiff, some gravel, odor
	48	208			
5					
		1010			
		1318	(5.5-6)		
6					
		1228			(72-96") Clayey SILT, brown, slightly moist, stiff
		80			
7					
		93			
		100			
8					
		107			(96-102") Same as above
	48	465			(102-132") Sandy silty CLAY, brown to dark brown, moist, stiff, trace sand
9					
		210			
		85			
10					
		35			
		12			
11					
		0			(132-144") SAND medium to coarse, pink-gray, wet
		17			End of Boring at 12ft
12					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-23	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 16				DEPTH TO WATER (FT): na	
				DATE: 07/10/07	
				DRILLER: William Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	44	33.4 25			(0-12") Silty clayey SAND/SILT/GRAVEL, green-brown
2		39 37			(12-18") Asphalt (18-24") Same as (0-12")
3		19 17			(24-36") Silty SAND, greenish gray, slightly moist, soft
4		11 8	(3.5-4)		(36-44") Clayey SILT, brown, slightly moist, stiff
5	27	24 22			(48-56") Silty SAND, greenish grey, little gravel (56-68") Silty CLAY, gray-brown, moist, soft
6		23 25			(68-71") Rock fragment (71-75") GRAVEL, saturated, fragments
7		10			
8					
9	46	18 16			(96-120") Silty CLAY, brownish gray, moist, stiff
10		25 19	(9-9.5)		
11		12 12			(120-142") Sandy silty CLAY, gray, wet, soft to stiff
12		21 10			
13	48	14 10			(144-170") Silty CLAY, brown, saturated, soft

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-24	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/10/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 16		DEPTH TO WATER (FT): na		DRILLER: William / Abraham	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	30	0			(0-8") Asphalt, backfill
					(8-30") Sandy silty GRAVEL, light brown light gray, dry
2		0			
3					(30-48") No recovery
4					
5	48	0	(4.5-5)		(48-66") Silty CLAY, brownish gray, moist, stiff, (62-64")sub-rounded fragments
6		30			(66-96") Same as above, no gravel, clayey, moist to wet
		32			
7		34			
		27			
8		38	(7-8)		
		(7.5-8)			
9	48	15			(96-106") Silty SAND, brownish gray, saturated
		33			(106-114") Silty CLAY, brownish gray, saturated, soft.
10		25			(114-132") Clayey SILT, gray, saturated to wet, stiff to soft.
		32			
11		26			
		20			
12		21			(132-144") Sandy SILT, gray, pink, wet, soft
		29			
13	48	296			(144-158") Silty CLAY, brown, saturated, stiff
		32			

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-25	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/10/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 12		DEPTH TO WATER (FT): na		DRILLER: William R	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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	42	0			(0-8") Asphalt
1					(8-42") Backfill, sandy silty GRAVEL/ SAND, slightly moist, loose, angular fragments
		0			
2					
		0			
3					
		0			
4					
	46	0			(48-65") Slough of material from top
5					
		0			(65-106") Sandy CLAY, brownish yellow, slightly moist, stifl
6					
		0			
7					
		0			
8					
	46	0			(96-115") Slough of material from top
9					
		0			(115-142") Silty SAND sandy SILT, light brown gray with black veins, moist to we
10			(10-10.5)		
		0			
11					
		0			
12					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-26	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	24	0			(0-24") Backfill, gravelly sandy silty CLAY, gray yellow-brown green, angular gravel
2		0			
3		0			(24-60") No recovery
4					
5					
6	54	0			(60-77") Sandy silty CLAY, green, light brown gray, moist, soft to stiff
7		0.5 0	(6.5-7)		(77-83") Gravelly sandy silty CLAY, yellow-brown brown green, soft, rock fragments (83-114") Sandy silty CLAY, gray green light and dark brown, slightly moist, very stiff
8		2 2.9			
9		2.3 45.4			
10		310 2192	(9.5-10)		
11	24	555 153			(120-148") Sandy silty CLAY very fine sand, gray redish brown with black veins, slightly moist, very stiff
12		48 44			

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		<div>SOIL BORING LOG</div>		<div>BORING NUMBER</div> <div>D-27</div>	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 16				DEPTH TO WATER (FT): na	
				DATE: 07/13/07	
				DRILLER: Abraham Nuniz / William Rodriguez	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	30	0 0			(0-12") Backfill, gravelly sandy silty CLAY
2		9 99			(12-30") Sandy silty CLAY, some gravel fragments, green yellow-brown brown, slightly moist, stiff
3		308			(30-48") No recovery
4					
5	39	65 60			(48-65) Slough of material from above
6		1377 1365	(5-5.5)		(65-87") Sandy silty CLAY, brown yellow-brown gray, slightly moist, stif
7		960 338			
8		44			(87-96") No recovery
9	46	855 124			(96-136") Sandy silty CLAY, yellow-brown gray brown, slightly moist, stif
10		268 401			
11		432 242			
12		87			(136-142") SAND medium to coarse grained, gray, moist to wet, loose
13	46	1816			(144-161") Slough of material from top

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-28	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 16				DEPTH TO WATER (FT): na	
				DATE: 07/13/07	
				DRILLER: William Rodriguez	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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	24	10			(0-24") Backfill, gravelly sandy silty CLAY, green gray yellow-brown, slightly moist, stif
1		0			
		0			
2					
3					
			(3.5-4)		
4					
	42	00			(48-64") Slough of material from top
5		2092572			(64-90") Sandy silty CLAY, yellow-brown black with white veins, slightly moist, stif
		28501182			
6					
		2251	(7-7.5)		
7					
	46	9222336			(96-120") Sandy silty CLAY, some gravel fragments, yellow-brown green, slightly moist, stif
8		792225			
		14193			(120-142") SAND/silty SAND, medium to coarse, brown greenish gray
9		2142			
	42	638472			(144-162") Slough of material from top
10					
11					
12					
13					

[illegible]

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-29	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 13				DEPTH TO WATER (FT): na	
				DATE: 07/12/07	
				DRILLER: Abraham Nuniz	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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		0			(0-3") Asphalt
1	53	1			(3-53") Backfill, gravelly sandy silty CLAY, brown gray, slightly moist, stiff, local gravel
		2			
2		51			
		869			
3		982			
		209			
4		1078			
5					
	58	1017			(60-72") Slough of material from top
6		327			
		708	(6.5-7)		(72-118") Sandy silty CLAY, gray light brown, slightly moist, soft to stiff, iron concretions,
7		103			
		349			
8		321			
		330			
9		207			
		83			
10		124			
	42	650			(120-138") Slough of material from top
11		481			
		112			(138-144") SAND/ silty SAND medium to coarse, brown gray, wet, loose
12		6			
		10			(149-162") Sandy silty CLAY, brown gray with iron concretion, moist to wet
13		8			End of Boring at 13ft. Bgs

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		<div>SOIL BORING LOG</div>		<div>BORING NUMBER</div> <div>D-30</div>	
<div>PROJECT NAME: Bristol Myers Squibb</div> <div>LOCATION: Humacao, PR</div> <div>PROJECT NO: Interim Corrective Measure</div> <div>CONTRACTOR: GeoEnvirotech</div>				<div>DATE: 07/11/07</div> <div>DRILLER: Abraham Nuniz</div> <div>LOGGED BY: Nestor Rivera</div>	
<div>SAMPLER TYPE/DIAMETER (IN): 5 ft Macro-core/ 1.75 inch</div> <div>BORING METHOD: Direct Push</div> <div>TOTAL DEPTH DRILLED (FT): 12</div> <div>DEPTH TO WATER (FT): na</div>					

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	16	0			(0-10") Backfill, gravelly sandy SILT/ silty SAND, light brown, slightly moist, loose, angular fragments. (10-16") Sandy silty CLAY, gray light brown gray, slightly moist, stiff, gravel fragments
2		0			(16-60") No recovery
3					
4					
5					
6	30	0			(60-73") Slough of material from top
7		0			(73-81") Sandy silty CLAY, light brown gray red, slilghtly moist, stiff (81-90") Silty SAND/ SAND fine to medium grained, wet, stiff, loose
8		0			
9		0			
10		0			
11	36	0	(10.5-11)		(120-130") Slough of material from top
12		0			(130-156") Silty SAND sandy SILT fine to medium coarse ,gray black with brown veins, moist to wet End of Boring at 12ft. Bgs
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-31	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: W. Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	36	700			(0-8") Sandy silty CLAY, dry, concrete dust, gravel.	
		1400			(8-11") Sandy silty CLAY, gray, slightly moist, some gravel	
					(11-36") Silty CLAY, brown-green, slightly moist, stiff	
2		360	(1.5-2)			
		85				
3		76				
		25				
4		42			(36-48") No recovery	
5	48	93			(48-54") Same as above	
		0				(54-68") Silty CLAY trace sand, light brown, slightly moist, soft
6		23			(68-96") Silty CLAY, brown gray, slightly moist, soft	
		18				
7		12.5				
		17				
8		240				
		286				
9	42	3.6			(96-123") Same as above, light brown (111-123"), wet, stiff	
		173				
10		199				
		346				
11		664	(10.5-11)		(123-128") Sandy silty CLAY, gray, wet, soft	
		24.2			(128-138") SAND medium coarse, pink-gray, wet, soft	
12		10.3				
13					End of Boring at 12ft. Bgs	

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-32	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 16				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: W. Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	42	0			(0-6") GRAVE, sandy, silty, CLAY, gray, saturated to wet
		2194			(6-42") Sandy CLAY, gray-brown to light brown, slightly moist, soft to stiff
2		65			
		0			
3		0			
4		0			
5	48	0.3			(48-66") CLAY, light brown, wet, soft
		36			
6		8.2			(66-72") Clayey sandy SILT, light brown, wet, soft
		0			
7		0	(6.5-7)		(72-90") CLAY, gray, wet, soft
		0			
8		59.0			
		97.0			
9	48	0			(96-118") CLAY, gray light brown, saturated, soft
		0			
10		0			(118-124") Silty fine SAND/ sandy SILT, pink-gray, wet, soft
		23			
11		79			(124-138") Silty fine SAND, trace clay, light brown, soft
		446			
12		9999	(11-11.5)		(138-144") SAND medium to coarse, pink-gray
		7157			
13	48	113			(144-148") Same as above
		81			(148-168") Silty CLAY, gray light brown, saturated, soft, little fine gravel

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		<div>SOIL BORING LOG</div>		<div>BORING NUMBER</div> <div>D-33</div>	
<div>PROJECT NAME: Bristol Myers Squibb</div> <div>LOCATION: Humacao, PR</div> <div>PROJECT NO: Interim Corrective Measure</div> <div>CONTRACTOR: GeoEnvirotech</div>				<div>DATE: 07/10/07</div> <div>DRILLER: William Rodriguez</div> <div>LOGGED BY: Nestor Rivera</div>	
<div>SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch</div> <div>BORING METHOD: Direct Push</div>					
<div>TOTAL DEPTH DRILLED (FT): 12</div> <div>DEPTH TO WATER (FT): na</div>					

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	18	0			(0-18") GRAVEL with very fine sand backfill, wet to moist, loose
2		0			(18-48") No recovery
3					
4					
5	48	0			(48-96") Slough of material from top, sandy silty CLAY, dark gray light brown, slightly moist, stiff
6		4	(5.5-6)		
7		52			
8		0			
9	48	42	(8.5-9)		(96-106") Sandy silty CLAY, same as above (106-144") Silty SAND/ SAND medium to coarse, moist to wet, loose
10		0			
11		0			
12		0			End of Boring at 12ft. Bgs
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-34	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/10/07	
				DRILLER: William Rodriguez	
				LOGGED BY: Micheal Stein / Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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					(0-8") Asphalt, fill
1	46	0			(8-46") Gravelly sandy CLAY, yellow gray, slightly moist, soft, angular rock fragments
		0			
2		0			
		0			
3		0			
		0			
4		5			
5	42	0	(4-4.5)		(46-73") Gravelly sandy CLAY to clayey, sandy GRAVEL, yellow-brown to brown, slightly moist, soft, angular fragments
		36			
6		1030			
		182			
7		1262			(73-90") Sandy CLAY, brown with black veins, slightly moist, stiff, roots, fine sand
		1369	(6.5-7)		
8		83			
		26			
9	45	1104			(96-115") Sandy silty CLAY, brown gray with balck/red veins, slightly moist, stiff,
		292			
10		12			(115-141") Silty SAND/ sandy SILT, gray red green, moist, soft
		11			
11		26			
		1			
12		0			End of Broing at 12ft. Bgs
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-35	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/10/07	
				DRILLER: W. Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	46	0			(0-2") GRAVEL
		4			(2-22") Sandy silty CLAY, light brown to gray
2		3	(1-1.5)		(22-40") Sandy clayey SILT, brown, dry, stiff, some gravel
		31			
3		87			
		9			
4		21			(40-46") Silty CLAY, gray-brown, slightly moist, stiff
		44			
5	48	62			(48-66") Silty SAND/ sandy SILT, light brown, trace clay
		24			
6		1			(66-78") SILT, brown, slightly moist, stiff
		8			
7		0	(6-6.5)		(78-96") Silty fine SAND, brown to pinkish gray, slightly moist, stiff
		1			
8		0			
9	44	42			(96-108") Sandy SILT, brown to gray, slightly moist, soft
		4			
10		0			(108-114") Clayey SILT, gray, moist, soft (114-140") Silty SAND, gray to pinkish gray, wet, soft
		0			
11		0			
		0			
12		0			End of Boring at 12ft. Bgs
		0			
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-36	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/09/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 12		DEPTH TO WATER (FT): na		DRILLER: W. Rodriguez / A. Nunez	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	24	0			(0-13") Rock fragments, top soil
		0			
		0			(13-24") Silty sandy CLAY, dark gray brown, slightly moist, soft to stiff
2					(24") Large rock fragment at 24"
3					
4					
5	46	0			(48-78") Sandy silty CLAY, slightly moist, stiff
		0			
		0			
6		0			
		0			
7		11	(6-6.5)		(78-94") Sandy CLAY/ (92-96") clayey SAND , brown gray red, soft to stiff
		5			
8		68			
		4			
9	46	4			(96-142") Silty sand to SAND medium to coarse, light brown, gray red, slightly moist to moist
		4			
		70			
10		392			
		348	(10-10.5)		
11		0			
		0			
12		0			End of Boring at 12 ft bgs
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-37	
PROJECT NAME: Bristol Myers Squibb				LOCATION: Humacao, PR	
PROJECT NO: Interim Corrective Measure				CONTRACTOR: GeoEnvirotech	
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch				BORING METHOD: Direct Push	
TOTAL DEPTH DRILLED (FT): 12				DEPTH TO WATER (FT): na	
				DATE: 07/11/07	
				DRILLER: W. Rodriguez	
				LOGGED BY: M. Stein	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	8	0			(0-8") Asphalt (8-48") No recovery
2					
3					
4					
5	41	0			(48-63") Silty CLAY, brown, moist, soft, little gravel
6		0			(63-67") Sandy silty CLAY/ GRAVEL, brown, sub rounded (67-78") Silty CLAY, light brown, wet, soft.
7		0			(78-89") Clayey SILT, dark brown to light brown, moist, stiff
8		0			(89-96") No recovery
9	46	0			(96-114") Sandy silty CLAY, light brown, moist, soft
10		0	(9.5-10)		(114-124") Clayey SILT, greenish brown, moist, stiff
11		0			(124-138") Fine sandy SILT, pink-gray, wet, stiff
12		0			(138-142") SAND medium, gray, stiff End of Boring at 12ft. Bgs
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		<div>SOIL BORING LOG</div>		<div>BORING NUMBER</div> <div>D-38</div>	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/09/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 12		DEPTH TO WATER (FT): na		DRILLER: W. Rodriguez/ A. Nunez	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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	24	0			(0-1") Asphalt
1		0			(1-24") Gravelly sandy SILT/ silty SAND, light green gray, slightly moist, loose, angula fragments
		0			
2		0			
					(24-48") No recovery
3					
4					
	20	0			(48-60") GRAVEL, saturated, loose, angular
5		0			(60-68") Sandy silty CLAY, light brown light green, slightly moist, sof
					(68-96") No recovery
6					
7					
8					
	42	0			(96-100") Gravel, same as above
9					(100-138") Gravelly sandy, silty CLAY, slightly moist to saturated, stif
		0	(9-9.5)		
10					
		0			
11					
		0			
12					End of Boring at 12 ft bgs
13					

<div>AMAI</div> <div>110 Corporate Park Drive</div> <div>White Plains, New York 10604</div>		SOIL BORING LOG		BORING NUMBER D-39	
PROJECT NAME: Bristol Myers Squibb		LOCATION: Humacao, PR		DATE: 07/09/07	
PROJECT NO: Interim Corrective Measure		CONTRACTOR: GeoEnvirotech			
SAMPLER TYPE/DIAMETER (IN): 4 ft Macro-core/ 1.75 inch		BORING METHOD: Direct Push			
TOTAL DEPTH DRILLED (FT): 12		DEPTH TO WATER (FT): na		DRILLER: W. Rodriguez / A. Nunez	
				LOGGED BY: Nestor Rivera	

DEPTH FROM SURFACE (FEET)	RECOVERY (INCHES)	PID (ppm)	SAMPLE DESIGNATION	BLOW COUNT	LITHOLOGIC DESCRIPTION AND COMMENTS
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1	46	0			(0-12") Gravelly sandy SILT/ sandy GRAVEL
2		0			(12-46") Sandy silty CLAY, brown, slightly moist, soft to stiff, angular fragments
3		0			
4		0			
5	46	0			(48-94") Sandy silty CLAY, brown gray with black veins, slightly moist, stiff, fine sand
6		0			
7		0			
8		0			
9	42	0			(96-100") Slough of material from top (106-138") SAND silty sand sandy SILT, gray red light brown, (120-138") wet to saturated
10		0	(9.5-10)		
11		0			
12		0			End of Boring at 12 ft bgs
13					

Drilling Co: GeoEnviroTechDrilling Method: **8" Hollow Stem Auger**Date Completed: 5/13/10Location: BMS Humacao

Sampler / Drop: NA

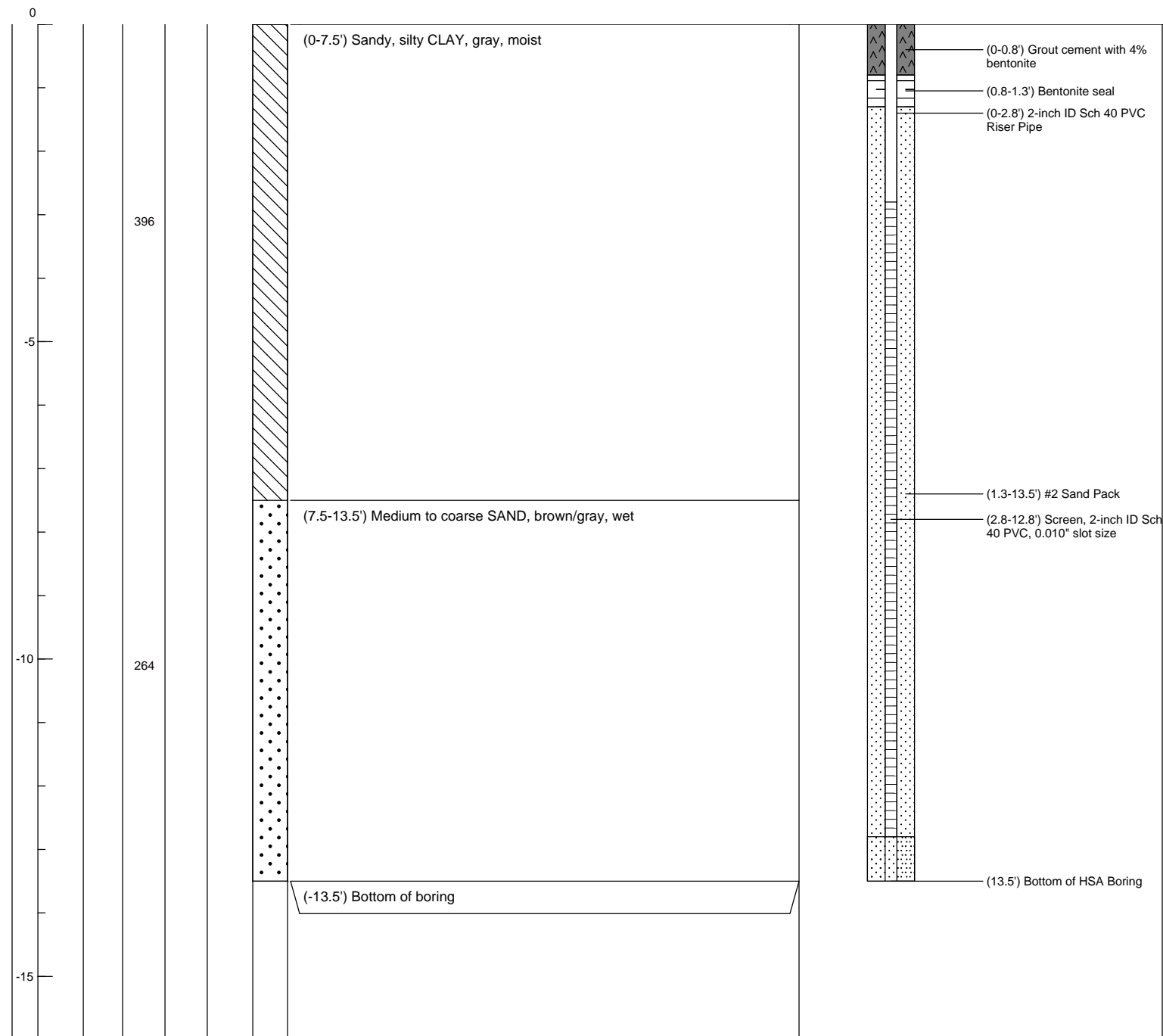
Date Started: 5/13/10

Desc. of Meas Pt: **N/A**

Logged by: Nestor Rivera

Surface Elev: N/AMeas. Pt. Elev N/AReviewed by: Wes LaParl

DEPTH (ft)	BLOWS/6 in.	PID (ppm)	SAMPLES	RECOVERY (in)	GRAPHIC LOG	SOIL DESCRIPTION	WELL



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Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

LEGEND

D - Dry
M - Moist
W - Wet
S - Saturated



Split Spoon



Shelby Tube



Auger Cuttings

Water Level ATD NA

ft bgl



Water Level	NA
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ft btc



Notes:

Soil descriptions from cuttings.

Project: **BMS- Building 5 Area**

Well: **A-2R2**

Pg. 1 of 1

Drilling Co: **GeoEnviroTech**

Drilling Method: **8" Hollow Stem Auger**

Date Completed: **5/13/10**

Location: **BMS Humacao**

Sampler / Drop: **NA**

Date Started: **5/13/10**

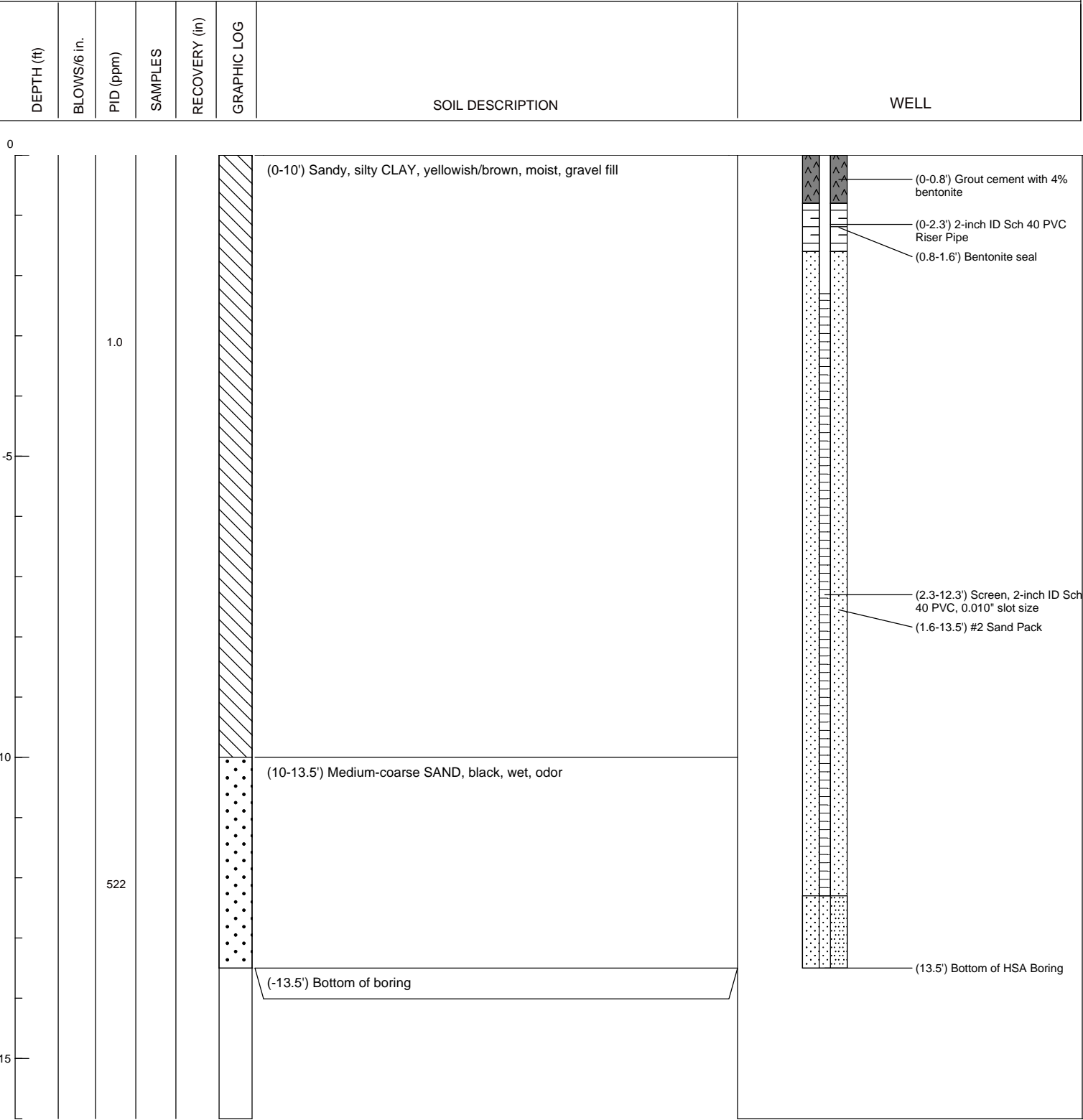
Surface Elev: **N/A**

Desc. of Meas Pt: **N/A**

Logged by: **Nestor Rivera**

Meas. Pt. Elev **N/A**

Reviewed by: **Wes LaParl**



ANDERSON MULHOLLAND & ASSOCIATES, INC. Environmental Consultants 110 Corporate Park Drive White Plains, NY 10604 914-251-0400	LEGEND		Water Level ATD NA	ft bgl	≡
	D - Dry M - Moist W - Wet S - Saturated	Split Spoon Shelby Tube Auger Cuttings	Water Level NA	ft btc	▼
			Notes: Soil descriptions from cuttings.		

Appendix B

Laboratory Analytical Results (On CD-ROM)